

Name: _____

at1124exam: Radicals and Squares (v822)

Question 1

Simplify the radical expressions.

$$\sqrt{99}$$

$$\sqrt{28}$$

$$\sqrt{18}$$

Question 2

Find all solutions to the equation below:

$$3((x+7)^2 + 7) = 69$$

Question 3

By completing the square, find both solutions to the given equation. *You must show work for full credit!*

$$x^2 - 18x = -56$$

Question 4

A quadratic polynomial function is shown below in standard form.

$$y = 4x^2 + 24x + 42$$

Express the function in **vertex form** and identify the **location** of the vertex.